



Attorney Docket No.: INFO-P009

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Patent Application

Inventor(s): Kanchwalla et al.

Serial No.: 09/877,370

Group Art Unit: 2175-2165
Abd-Jalil, Neven
Examiner: RONES, CHARLES

Filed: June 7, 2001

Title: METHOD AND APPARATUS FOR TRANSPORTING DATA FOR DATA
WAREHOUSING APPLICATIONS THAT INCORPORATES ANALYTIC DATA
INTERFACE

Form 1449

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
NTJ	A	5,781,911	7/14/98	Young et al.	707	201	9/10/96
	B						
	C						
	D						
	E						
	F						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							
	M							
	N							
	O							
	P							
	Q							

Other Documents

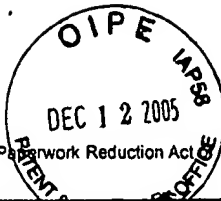
Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	R	
	S	
	T	
Examiner	Date Considered	

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.

RECEIVED

NOV 25 2003

Technology Center 2100



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Complete if Known			
		Application No.	09/877,370		
		Filing Date	June 7, 2001		
		First Named Inventor	Firoz Kanchwalla		
		Art Unit	2165		
		Examiner Name	Neveen Abel Jalil		
Sheet	1	of	12	Attorney Docket Number	23402-09411

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
AAJ	A1	US-2002/0035565	03-2002	Shah et al.
	A2	US-2002/0056081	05-2002	Morley et al.
	A3	US-2002/0059267	05-2002	Shah et al.
	A4	US-2002/0077787	06-2002	Rappaport et al.
	A5	US-2002/0099691	07-2002	Lore et al.
	A6	US-2002/0112237	08-2002	Kelts, Brett R.
	A7	US-2002/0161770	10-2002	Shapiro et al.
	A8	US-2002/0172247	09-2003	Bayer et al.
	A9	US-5,403,147	04-1995	Tanaka
	A10	US-5,404,513	05-1995	Powers et al.
	A11	US-5,405,531	04-1995	Hitzman et al.
	A12	US-5,410,688	04-1995	Williams et al.
	A13	US-5,420,688	05-1994	Farah
	A14	US-5,455,945	10-1995	Vanderdrift
	A15	US-5,511,190	04-1996	Sharma et al.
	A16	US-5,519,859	05-1996	Grace
	A17	US-5,537,589	07-1996	Dalal
	A18	US-5,563,999	10-1996	Yaksich et al.
	A19	US-5,603,024	02-1997	Goldring
	A20	US-5,655,101	08-1997	O'Farrell et al.
	A21	US-5,675,785	10-1997	Hall et al.
	A22	US-5,689,566	11-1997	Nguyen, Minhtam
	A23	US-5,692,181	11-1997	Anand et al.
	A24	US-5,706,495	01-1998	Chadha et al.
	A25	US-5,708,828	01-1998	Coleman

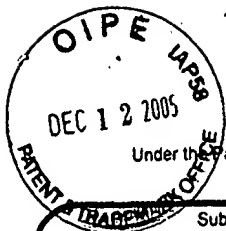
Examiner Signature		Date Considered	12/27/05
--------------------	--	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application No.	09/877,370
Filing Date	June 7, 2001
First Named Inventor	Firoz Kanchwalla
Art Unit	2165
Examiner Name	Neveen Abel Jalil
Attorney Docket Number	23402-09411

Sheet 2 of 12

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
AAJ	A26	US-5,713,020	01-1998	Reiter et al.
	A27	US-5,721,903	02-1998	Anand et al.
	A28	US-5,721,911	02-1998	Ha et al.
	A29	US-5,778,355	07-1998	Boyer et al.
	A30	US-5,781,911	07-1998	Young et al.
	A31	US-5,787,415	07-1998	Jacobson et al.
	A32	US-5,794,030	08-1998	Morsi et al.
	A33	US-5,794,228	08-1998	French et al.
	A34	US-5,794,229	08-1998	French et al.
	A35	US-5,794,246	08-1998	Sankaran et al.
	A36	US-5,799,310	08-1998	Anderson et al.
	A37	US-5,806,060	09-1998	Borgida et al.
	A38	US-5,822,751	10-1998	Gray et al.
	A39	US-5,826,258	10-1998	Gupta
	A40	US-5,832,496	11-1998	Anand et al.
	A41	US-5,842,213	11-1998	Odom et al.
	A42	US-5,848,415	12-1998	Guck, Randal
	A43	US-5,854,890	12-1998	Ramachandran et al.
	A44	US-5,857,197	01-1999	Mullins
	A45	US-5,870,746	02-1999	Knutson et al.
	A46	US-5,870,747	02-1999	Sandaresam
	A47	US-5,873,102	02-1999	Bridge, Jr. et al.
	A48	US-5,884,262	03-1999	Wise et al.
	A49	US-5,898,431	04-1999	Bayles et al.
✓	A50	US-5,915,019	06-1999	Ginter et al.

Examiner
Signature

Date
Considered

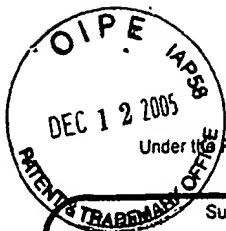
12/27/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application No.	09/877,370
Filing Date	June 7, 2001
First Named Inventor	Firoz Kanchwalla
Art Unit	2165
Examiner Name	Neveen Abel Jalil
Attorney Docket Number	23402-09411

Sheet 3 of 12

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
APD	A51	US-5,933,796	08-1999	Ashida et al.
	A52	US-5,982,890	11-1999	Akatsu, Masaharu
	A53	US-5,987,454	11-1999	Hobbs, Allen
	A54	US-5,991,742	11-1999	Tran, Bao Q.
	A55	US-6,002,402	12-1999	Schacher, John L.
	A56	US-6,003,024	12-1999	Bair et al.
	A57	US-6,014,670	01-2000	Zamanian et al.
	A58	US-6,026,388	02-2000	Liddy et al.
	A59	US-6,032,145	02-2000	Beall et al.
	A60	US-6,032,158	02-2000	Mukhopadhyay et al.
	A61	US-6,044,374	03-2000	Nesamoney et al.
	A62	US-6,065,007	05-2000	Muthukrishanan et al.
	A63	US-6,072,492	06-2000	Schagen et al.
	A64	US-6,078,994	06-2000	Carey, James
	A65	US-6,119,167	09-2000	Boyle et al.
	A66	US-6,122,628	09-2000	Castelli et al.
	A67	US-6,128,624	10-2000	Papierniak et al.
	A68	US-6,141,699	10-2000	Luzzi et al.
	A69	US-6,151,584	11-2000	Papierniak et al.
	A70	US-6,151,601	11-2000	Papierniak et al.
	A71	US-6,173,310	01-2001	Yost et al.
	A72	US-6,192,364 B1	02-2001	Baclawski
	A73	US-6,205,472	03-2001	Gilmour, David L.
	A74	US-6,208,990 B1	03-2001	Suresh et al.
✓	A75	US-6,216,125	04-2001	Johnson

Examiner
Signature

Date
Considered

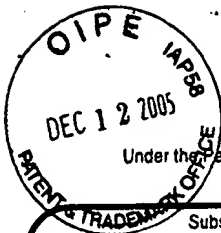
12/27/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Substitute for form 1449A/PTO	
		Complete if Known	
		Application No.	09/877,370
		Filing Date	June 7, 2001
		First Named Inventor	Firoz Kanchwalla
		Art Unit	2165
Examiner Name	Neveen Abel Jalil		
Attorney Docket Number	23402-09411		
Sheet	4	of	12

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
MAJ	A76	US-6,233,575	05-2001	Agrawal et al.
	A77	US-6,262,598 B1	08-2001	Lapp et al.
	A78	US-6,269,336	07-2001	Itabashi et al.
	A79	US-6,269,369	07-2001	Robertson, Brian D.
	A80	US-6,272,485	08-2001	Sragner, Ruth
	A81	US-6,292,657	09-2001	Laursen et al.
	A82	US-6,308,203	10-2001	Itabashi et al.
	A83	US-6,336,137 B1	01-2002	Lee et al.
	A84	US-6,339,775 B1	01-2002	Zamanian et al.
	A85	US-6,369,840	04-2002	Barnett et al.
	A86	US-6,385,604	05-2002	Bakalash et al.
	A87	US-6,393,386	05-2002	Zager et al.
	A88	US-6,404,884	06-2002	Marwell et al.
	A89	US-6,408,292	06-2002	Bakalash et al.
	A90	US-6,411,936	06-2002	Sanders, Aaron M.
	A91	US-6,418,200	07-2002	Ciccolella et al.
	A92	US-6,421,781	07-2002	Fox et al.
	A93	US-6,424,426	07-2002	Henry
	A94	US-6,430,624 B1	08-2002	Jamtgaard et al.
	A95	US-6,438,522 B1	08-2002	Tate
	A96	US-6,446,059	09-2002	Berger et al.
	A97	US-6,446,062 B1	09-2002	Levine et al.
	A98	US-6,446,096 B1	09-2002	Holland et al.
	A99	US-6,449,619 B1	09-2002	Colliat et al.
	✓ A100	US-6,457,030 B1	09-2002	Adams et al.

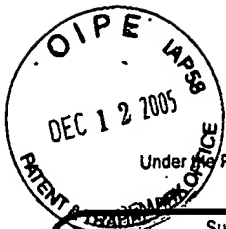
Examiner Signature 	Date Considered 12/27/05
------------------------	-----------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application No.	09/877,370
Filing Date	June 7, 2001
First Named Inventor	Firoz Kanchwalla
Art Unit	2165
Examiner Name	Neveen Abel Jalil
Attorney Docket Number	23402-09411

Sheet 5 of 12

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
AJS	A101	US-6,466,969	10-2002	Bunney et al.
	A102	US-6,477,525	11-2002	Bello et al.
	A103	US-6,487,584	11-2002	Bunney, William
	A104	US-6,491,304	07-2003	Sitaraman et al.
	A105	US-6,493,800 B1	12-2002	Blumrich, Matthias Augustin
	A106	US-6,502,101	12-2002	Verprauskus et al.
	A107	US-6,535,872	03-2003	Castelli et al.
	A108	US-6,539,359	03-2003	Ladd et al.
	A109	US-6,549,910 B1	04-2003	Tate
	A110	US-6,549,937	04-2003	Auerbach et al.
	A111	US-6,549,937	04-2003	Auerbach et al.
	A112	US-6,553,366 B1	04-2003	Miller et al.
	A113	US-6,563,912	05-2003	Dorfman et al.
	A114	US-6,564,264	05-2003	Creswell et al.
	A115	US-6,574,599	06-2003	Lim et al.
	A116	US-6,581,062	06-2003	Draper et al.
	A117	US-6,601,062 B1	07-2003	Deshpande et al.
	A118	US-6,616,701	09-2003	Doyle
	A119	US-6,629,102 B1	09-2003	Malloy et al.
	A120	US-6,631,497	10-2003	Jamshidi et al.
	A121	US-6,636,870 B2	10-2003	Roccaforte
	A122	US-6,671,689 B2	12-2003	Papierniak
	A123	US-6,721,728	04-2004	McGreevy
	A124	US-6,736,870 B2	10-2003	Raccaforte, Raymond

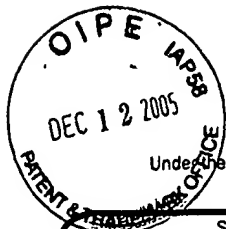
Examiner Signature		Date Considered	12/27/05
--------------------	--	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Substitute for form 1449A/PTO	
				Complete if Known	
				Application No.	09/877,370
				Filing Date	June 7, 2001
				First Named Inventor	Firoz Kanchwalla
				Art Unit	2165
				Examiner Name	Neveen Abel Jalil
Sheet	6	of	12	Attorney Docket Number	23402-09411

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² - Number ³ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
MAD	B1	EP 0987868 A3	03-2000	Schwartz, Bruce V.	
	B2	EP 1043671 A2	10-2000	Bird et al.	
	B3	EP 1164511 A2	12-2001	Griffin et al.	
	B4	GB 2,350,758	12-2000	IBM	
	B5	GB 2,357,596	06-2001	University College London	
	B6	WO 00/04466	01-2000	Suresh, Sankaran	
	B7	WO 00/08581	02-2000	Harvest Technology Inc.	
	B8	WO 00/77707	12-2000	Star, Barry	
	B9	WO 01/18728	03-2001	GETAPPROVED COM LLC	
	B10	WO 01/20438	03-2001	Ericsson Inc.	
	B11	WO 01/24040	05-2001	HNC Software, Inc.	
	B12	WO 02/44953	06-2002	Intel Corp.	
	B13	WO 99/24922	05-1999	Zamanian, M et al.	

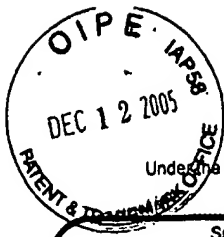
OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		T ⁶
MAD ↓ ↓	C1	24X7 The Magazine of Nonstop Computing, "Compaq's Zero Latency Enterprise Initiative," Vol. 1, No. 2, October 2000, pp. 1-25.		
	C2	"A Process for Selective Routing of Servlet Transcoding Modules," IBM Technical Disclosure Bulletin, Vol. 42, Issue 422, June 1999 UK.		
	C3	"Multi-Modal Data Access Research Disclosure, Kenneth Mason Publications, Hampshire, GB, No. 426, October 1999, pp. 133-1386.		

Examiner Signature		Date Considered	12/27/05
--------------------	--	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Substitute for form 1449A/PTO		Complete if Known	
		Application No.		09/877,370	
		Filing Date		June 7, 2001	
		First Named Inventor		Firoz Kanchwalla	
		Art Unit		2165	
		Examiner Name		Neveen Abel Jalil	
Sheet	7	of	12	Attorney Docket Number	23402-09411

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
MJS	C4	"Parameterized XSL Style Sheets," Research Disclosure, Vol. 42, No. 423, July 1, 1999, Havant, UK, Article No. 423110.	
	C5	Anand, V. J. et al. "Data Warehouse Architecture for DDS Applications." Australian Journal of Information Systems. Sep. 1996, AJIS Publishing, Australia, vol. 4, No. 1, pp. 43-53.	
	C6	Ballinger, C. et al., "Born to be Parallel. Why Parallel Origins Give Teradata an Enduring Performance Edge," Bulletin of the Technical Committee on Data Engineering, Vol. 20, No. 2, June 1997, IEEE Comput. Soc., Los Alamitos, CA, US.	
	C7	Barrett R. et al., "Intermediaries: An Approach to Manipulating Information Streams," IBM Systems Journal, IBM Corp., Armonk, New York, U.S. Vol. 38, No. 4, 1999, pp. 629-641.	
	C8	Bellatreche, L. et al., "OLAP Query Processing for Partitioned Data Warehouses," Proceedings 1999 Int'l. Symposium on Database Applications in Non-Traditional Environments (Dante'99) (CAT. No. PR00496), Kyoto, JP, November 28-30, 1999, pp. 35-42, IEEE Comput. Soc., Los Alamitos, CA US ISBN: 0-7695-0496-5.	
	C9	Bello, R.G. et al., "Materialized Views in Oracle," Proceedings of the Int'l. Conf. On Very Large Data Bases, NY, Aug. 24, 1998, pp. 659-664.	
	C10	Chamberlin D. et al., "A Complete Guide to DB2 Universal Database," 1992, pp. 659-600.	
	C11	Chan, R. "12 Steps of Creating a Successful Data Warehouse," Proceedings of the 8th International Database Workshop (Industrial Volume), Proceedings of the 8th International Hong Kong Computer Society Database Workshop, Data Mining, Data Warehousing and CLI, pp.227-248, ISBN 981-3083-53-0, 1997, Singapore, Springer-Verlag Singapore, Singapore.	
	C12	Chaudhuri, S. et al., "An Overview of Data Warehousing and OLAP Technology," SIGMOD Record, Sigmod, New York, No. US, Vol. 2, No. 1, March 1997, pages 65-74.	

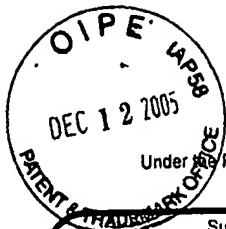
Examiner Signature		Date Considered	12/27/01
--------------------	--	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Substitute for form 1449A/PTO		Complete if Known		
		Application No.		09/877,370		
		Filing Date		June 7, 2001		
		First Named Inventor		Firoz Kanchwalla		
		Art Unit		2165		
		Examiner Name		Neveen Abel Jalil		
Sheet	8	of	12	Attorney Docket Number		23402-09411

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Ref.
AKO	C13	Curley, K. et al. "The Rationale for Developing a Corporate Data Warehouse and the Development of a Model for Sharing Data in a Data Warehouse Environment." OOIS '95. 1995 International Conference on Object Oriented Information Systems Proceedings, Proceedings of 1995, International Conference on Object Oriented Information Systems, Dublin, Ireland, Dec. 18-20, 1995, pp. 351-366, Berlin Germany, Springer-Verlag, Germany.	
	C14	Datta, A., et al., "A Case for Parallelism in Data Warehousing and OLAP," Ninth Int'l. Workshop on Database and Expert Systems Applications, Vienna, AT, IEEE Comput. Soc., Los Alamitos, CA, US, August 26, 1998, pp. 226-231.	
	C15	Dawson F. et al., "RFC 2426 vCard MIME Directory Profile," Network Working Group, Request for Comments 2426, September 1998.	
	C16	Deutsch A. et al., "Storing Semistructured Data with STORED," ACM SIGMOD Record, Proceedings of the 1999 ACM SIGMOD International Conference on Management of Data, June 1999, Vol., 28, Issue 2.	
	C17	Duncan, K., et al., "Optimizing the Data Warehousing Environment for Change: the Persistent Staging Area," Cutter IT Journal, June 1999, Cutter Inf. Corp. USA, Vol. 12, No. 6, pp. 28-35.	
	C18	Fernandez M. et al., "SilkRoute: Trading Between Relations and XML," WWW9/Computer Networks, 33(1-6), pp. 723-745, 2000.	
	C19	Florescu D. et al., "A Performance Evaluation of Alternative Mapping Schemes for Storing SML in a Relational Database," Technic Report 3680, INRIA, 1999.	
	C20	Freytag, C. et al., "Resource Adaptive WWW access for Mobile Applications," Computers and Graphics, Pergamon Press Ltd., Oxford, GB, Vol. 23, No. 6, December 1999, pp. 841-848.	
	C21	Fry, J.P., "Conversion Technology, An Assessment," ACM SIGMIS Database, Vol. 12-13, No. 4-1, July 1981, pp. 39-61.	
	C22	Hammer, J. et al., "Extracting Semistructured Information From the Web," Proceedings of the Workshop on Management of Semi-structured Data, March 16, 1997, pp. 1-25.	

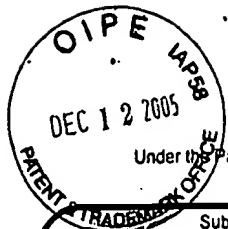
Examiner Signature	<i>Neveen Abel Jalil</i>	Date Considered	12/27/05
--------------------	--------------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

†Applicant's unique citation designation number (optional). ‡See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. §Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ¶For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. §Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0551-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application No.	09/877,370
Filing Date	June 7, 2001
First Named Inventor	Firoz Kanchwalla
Art Unit	2165
Examiner Name	Neveen Abel Jalil
Attorney Docket Number	23402-09411

Sheet 9 of 12

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
MA	C23	Hori M. et al., "Annotation-Based Web Content Transcoding," Computer Networks, Elsevier Science Publishers B.V., Amsterdam NL., Vol. 33, No. 106, June 2000, pp. 197-211.	
	C24	Housel B. et al., "A High-Level Data Manipulation Language for Hierarchical Data Structures," International Conference on Management of Data, 1976, pp. 155-169.	
	C25	Informatica Press Releases, "Informatica Delivers Industry's First Synchronized Data Marts With Newest Version of Powermart Suite," http://www.informatica.com/syndata - 052798.html , pp. 1-4, May 27, 1997.	
	C26	Informatica Press Releases, "Informatica Unveils Architecture for Networking Multiple Data Marts Into an Enterprise-Wide Data Warehouse," http://www.informatica.com/edm - 082697.html , pp. 1-4, August 26, 1997.	
	C27	Jaczynski, M. et al., "Broadway: A Case-Based System for Cooperative Information Browsing on the World Wide Web," Collaboration Between Human and Artificial Societies, Online 1999.	
	C28	Jones, Katherine, "An Introduction to Data Warehousing: What are the Implications for the Network," 1998, International Journal of Network Management, Vol. 8, pp. 42-56.	
	C29	Juhne, J., et al., "Ariadne: a Java-Based Guided Tour System for The World Wide Web," Computer Networks and ISDN Systems, North Holland Publishing, Amsterdam, NL, Vol. 30, No. 107, April 1, 1998, pp. 131-139.	
	C30	Kim, W., "On Optimizing an SQL-Like Nested Query," ACM Transactions on Database Systems, Association for Computing Machinery, New York, US, Vol. 7, No. 3, September 1, 1982, pp. 443-469.	
	C31	Kitayama, F. et al., "Design of a Framework for Dynamic Content Adaptation to Web-enabled Terminals and Enterprise Applications," Software Engineering Conference, 1999. Proceedings Sixth Asian Pacific Takamatsu, Japan, December 7-10, 1999, Los Alamitos, CA, US.	
	C32	Kovacs, L. et al., "Aqua: An Advanced User Interface for the Dienst Digital	

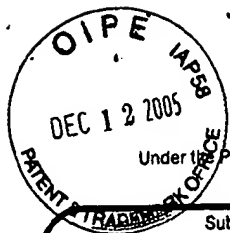
Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Complete if Known

Application No.	09/877,370
Filing Date	June 7, 2001
First Named Inventor	Firoz Kanchwalla
Art Unit	2165
Examiner Name	Neveen Abel Jalil
Attorney Docket Number	23402-09411

Sheet 10 of 12

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS

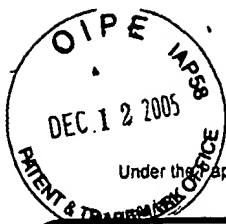
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
AM		Library System," 8 th Delos Workshop: User Interfaces for Digital Libraries, Online, October 21-23, 1998, Sweden, p. 2.	
	C33	Lum, V. Y. et al., "A General Methodology for Data Conversion and Restructuring," IBM Journal of Research and Development, IBM Corporation, Armonk, US, Vol. 20, No. 5, September 1, 1976, pp. 483-497.	
	C34	Makpangou M. et al., "Replicated Directory Service for Weakly Consistent Distributed Caches," INRIA SOR group-78143 Le Chesnay Cedex, France.	
	C35	Mohania M. et al.: "Advances and Research Directions in Data Warehousing Technology," Ajis. Australian Journal of Information Systems, Wollongong, Au. Vol. 7, No. 1, September 1999, pp. 41-59.	
	C36	Mumick I. S. et al. "Maintenance of Data Cubes and Summary Tables in a Warehouse," SIGMOD 1997. ACM SIGMOD International Conference on Management of Data, Tucson, AZ, USA, 13-15, May 1997, vol. 26, No. 2, pp. 100-111, XP002074807, Jun. 1997, ACM, USA.	
	C37	Mumick, I., "Magic is Relevant," Sigmod Record, Sigmod, New York, NY, US, Vol. 19, No. 2, June 1, 1990, pp. 247-258.	
	C38	Rodriguez J. et al., "IBM WebSphere Transcoding Publisher V1:1: Extending Web Applications to the Pervasive World," (http://ibm.com/redbooks), July 2000, pp. 1039.	
	C39	Rousskov A., "Cache Digests," Computer Networks and ISDN Systems, 30 (1998) 2144-2168.	
	C40	Roy P. et al., "Don't Trash Your Intermediate Results, Cach'em," Technical Report, Online, 2 March 2000, pages 1-22.	
	C41	Schneiderman B. et al., "An Architecture for Automatic Relational Database System Conversion," ACM Transactions on Database Systems, Vol. 7, No. 2, 1982.	
	C42	Schneier, B., "Applied Cryptography, Second Edition," 1996, pp. 189-196, 226-227.	

Examiner Signature		Date Considered	12/27/05
--------------------	--	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application No.	09/877,370
Filing Date	June 7, 2001
First Named Inventor	Firoz Kanchwalla
Art Unit	2165
Examiner Name	Neveen Abel Jalil
Attorney Docket Number	23402-09411

Sheet 11 of 12

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
NA	C43	Shanmugasundaram J. et al., "Relational Databases for Querying SML Documents: Limitations and Opportunities," Proc. Of VLBD, pp. 302-314, 1999.	
	C44	Seshadri, P. et al., "SQLServer for Windows CE-A Database Engine For Mobile And Embedded Platforms," Data Engineering 2000. Proceedings 16 th International Conference in San Diego, CA, US, February 29, 2000, IEE Computer Soc., US, February 29, 2000, pp. 642-644.	
	C45	Shimura T. et al., "Storage and Retrieval of XML Documents Using Object-Relational Databases," Proc. Of DEXA, pp. 206-217, 1999.	
	C46	Shu N. et al., "Convert: A High Level Translation Definition Language for Data Conversion," Communications of the ACM, Vol. 18, No. 10, October 1975 (1975-10), pp. 557-567.	
	C47	Shu N. et al., "Convert: A High Level Translation Definition Language for Data Conversion," Proceedings of the 1975 ACM SIGMOD International Conference on Management of Data, May 1975 (1975-05), page 111.	
	C48	Shu N. et al., "Express: A Data EXtraction, Processing, and REStructuring System," ACM Transactions on Database Systems, Vol. 2, No. 2, June 1977, pages 134-174.	
	C49	Shu, Nan, "Automatic Data Transformation and Restructuring," IEEE, 1987, pp. 173-180.	
	C50	Squire, C., "Data Extraction and Transformation for the Data Warehouse," ACM Proceedings of SIGMOD. International Conf. On Management of Data, Vol. 24, No. 1, March 1, 1995, page 446.	
	C51	Weyman, P.J., "The Case for a Process-Driven Approach to Data Warehousing," Database and Network Journal, A.P. Publications, London, FB, Vol. 27, No. 1, February 1, 1997, pp. 3-6.	
	C52	White, C., "Data Warehousing: Cleaning and Transforming Data," INFO DB, Vol. 10, No. 6, April 1997, pp. 11-12.	
✓	C53	White, C., "Managing Data Transformations," byte, McGraw-Hill Inc., St. Peterborough US, Vol. 22, No. 12, December 1, 1997, pp. 53-54.	

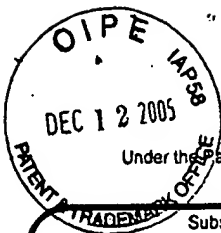
Examiner Signature		Date Considered	12/27/05
--------------------	--	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Substitute for form 1449A/PTO	
				Complete if Known	
				Application No.	09/877,370
				Filing Date	June 7, 2001
				First Named Inventor	Firoz Kanchwalla
				Art Unit	2165
Examiner Name	Neveen Abel Jalil				
Attorney Docket Number	23402-09411				
Sheet	12	of	12		

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		T ²
NM	C54	Informatica Corporation, Release Notes, PowerCenter 1.6, PowerMart 4.6, August 1999, pp. 1-30.		
	C55	Informatica Corporation, User Guide, PowerCenter 1.6, PowerMart 4.6, July 1999, pp. i-xxvii and 144-186 (Table of Contents, Preface, Chapters 6 & 7).		

Examiner Signature		Date Considered	12/27/05
--------------------	--	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

23402/09411/DOCS/1580775.1